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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
08/983,318	01/15/1998	SEPPO HUOTARI	PM244515/296	1286

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EXAMINER

GESESSE, TILAHUN

ART UNIT	PAPER NUMBER
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2684

DATE MAILED: 02/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 08/983,318	Applicant(s) HUOTARI, SEPPO	
	Examiner Tilahun B Gesesse	Art Unit 2684	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 August 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 11-19 is/are pending in the application.
- 4a) Of the above claim(s) 12 and 15 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 11, 13, 14 and 16-19 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This is in response to applicant's request for continuing examination (RCE) and amendment filed July 15, 2004, in which claims 11,13-14,16-19 are pending.

Drawings

2. The drawings were received on July 15,2004. These drawings are acknowledged.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 11,14,16 and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by Alvesalo et al "Alvesalo: (US 5,561,840).

Claim 11, Alvesalo teaches a method of transmitting an identity of a calling subscriber to a called subscriber (column 1, lines 59-65, column 5 lines 39-column 6 line 11 and figure 2), wherein the called subscriber (Mobile Terminal _MT) is a mobile subscriber in a mobile communication system (GSM network) includes switching centers (MSC1-MSC2 of figure 1) for establishing a speech connection between the calling subscriber and a mobile station assigned to the called subscriber (a signaling setup of an inbound call "speech" to mobile terminal or MT), one of the switching

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centers is associated with the called subscriber(incoming call is through GMSC the mobile terminal in one of MSC1 or MSC2 coverage area, see figure 1).

Alvesalo teaches storing permanent subscriber data in a home location register and storing temporary subscriber data in a visitor location register, (column 4, lines 16-34 and figure 2). and transmitting the identity of the calling subscriber to the switching center associated with the called subscriber via the home location requester in connection with a request for routing information (column 5, line 39-column 6, line 11 and figure 2, the switching center receives an international telephone number of a MT from A-subscriber from another network). In other words network of A-subscriber transmits the international ISDN number to a called subscriber network.

Claim 14. Alvesalo discloses a mobile communication system (figure 1 of GSM system) switching centers (MSC1-MSC2) for establishing a speech connection between a calling subscriber and a called subscriber (column 5, line 39-column 6, line 11 and figure 2), one of the switching centers is associated with the called subscriber,(MSC1-MSC2) a home location register (HLR)for permanent storage of subscriber data, and at least one visitor location register for temporary storage of subscriber data on subscribers located in a geographical area monitored by the visitor location register(column 4, lines 16-34 and figure 2), transmitting means for transmitting an identity of the calling subscriber to the switching center associated with the called subscriber via the home location register in connection with a request for routing information(column 5, line 39-column 6, line 11 and figure 2, the switching center receives an international telephone number of a MT from A-subscriber from another

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network).). In other words network of A-subscriber transmits the international ISDN number to a called subscriber network.

Claim 16, Alvesalo discloses a combination of a visitor location register plus mobile switching center (see figure 1) a first interface toward a gateway switching center for receiving a request to establish a speech connection between a calling subscriber and a called subscriber (GMSC receives inbound calls from PSTN, PSPDN, ISDN for set up inbound call "speech" to called subscriber , figure 1), a second interface toward a home location register for receiving an identity of the calling subscriber from the home location register in connection with a request for routing information relating to the called subscriber(column 4, lines 16-35) the second interface being located at the visitor location requester (column 4, line 36-column 5, line 27 and figure 1); and a third interface toward the called subscriber for establishing the requested speech connection between the calling subscriber and the called subscriber (column 5, line 38-column 6, line 11 and figure 2) , and for transmitting the identity of the calling subscriber obtained from the home location register to the called subscriber(column 5, line 39-column 6, line 11and figure 2, the switching center receives an international telephone number of a MT from A-subscriber from another network).). In other words network of A-subscriber transmits the international ISDN number to a called subscriber network.

Claim 18, Alvesalo discloses a home location register for permanent storage of subscriber data in a mobile communication system, the mobile communication system, switching centers for establishing a speech connection between a calling subscriber and a called subscriber (column 4, lines 16-35 and column 5, line 38-column 6, line 11), one

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of the switching centers is associated with the called subscriber (see figure 1) the home location register, a first interface toward a network element serving the calling subscriber for receiving an identity of the calling subscriber; a second interface toward a combination of a visitor location register plus mobile switching center, or VMSC, (MSC 1-MSC2) for requesting routing information relating to the called subscriber and for transmitting the identity of the calling subscriber to said VMSC combination of a visitor location register plus mobile switching center((column 5, line 39-column 6, line 11 and figure 2, the switching center receives an international telephone number of a MT from A-subscriber from another network).). In other words network of A-subscriber transmits the international ISDN number to a called subscriber network.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

6. Claims 13,17,19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Alvesalo in view of Yamaguchi et al (US 6,002,931).

Claim 13, 17 and 19, Alvesalo teaches the second interface is operable to transmit the identity of the calling subscriber in a PROVIDE ROAMWG NUMBER message (column 5, lines 50-65) except MAP message. However, Yamaguchi, in a same field of endeavor, teaches the second interface is operable to transmit the identity of the calling subscriber a MAP provide roaming number message (column 9, lines 39-57). It would have been obvious to a person of ordinary skill in the art at the time of the invention was made to interface a MAP roaming number message, as evidenced by Yamaguchi, in order to identify the roaming subscriber terminal in the visiting network in a GSM signaling protocol for digital network.

Response to Arguments

7. Applicant's arguments with respect to claims 11,13-14,16-19 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Patel (US 5884179) teaches establishing a connection between different switching centers by transmitting identity and using MAP data of a terminal (abstract).


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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tilahun B Gesesse whose telephone number is 703-308-5873. The examiner can normally be reached on flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on 703-308-7745. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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January 25, 2005



TILAHUN GESESSE
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